



THERMO PRINTER MCP7810B

Power On Procedure

Insert the alkaline batteries ensuring the correct polarity positioning is followed.
Open the paper cup lid and ensure that the roll is present and that there are no foreign objects inside the paper cup.
Close the lid, ensuring that the paper passes through the paper exit slot.
When the Status indicator is off, the printer is off. A brief press of the **Mode** button turns the printer on, the Status indicator will illuminate and the printer mechanism will reset. A brief press of the **Mode** button will turn the printer off.
When the printer is asleep, pressing the Mode button will wake up the printer.
If the batteries in the printer become exhausted, printing will become faint, erratic or not possible at all
Batteries should be removed if the printer is to be left unused for long periods.

Printing system Direct thermal line head

Max Characters per line 48, 32, 24(default)
Character matrix 24x8, 24x12 or 24x16
Character size 3mm x 2mm, 3mm x 1.5mm or 3mm x 1mm (Approx. 13, 17 or 25cpi)
Horizontal dot pitch 0.125mm (Approx. 200dpi)
Vertical dot pitch 0.125mm
Text line composition 24x384 dots
Printing width 48mm
Average printing speed 10 lines per second (max), MCP7810B 5 lines per sec
Dimensions 85.5mm x 150mm x 55mm (45mm low profile printer)
Weight 400g approx (inc batteries and paper)

Power supply

MCP7810 internal 4 x 1.2V NiMH 1600mAH, AA cells
MCP7810B internal 4 x 1.5V alkaline, AA cells
Paper width 58mm
Paper capacity 45mm dia. 25m (standard printer)
32mm dia, 10m (low profile printer)
Recommended paper AF50KS-E
Character set ASCII
Country codes USA, France, Germany, UK, Denmark I/II, Sweden, Italy, Spain & Japan

Interface

Data format RS232C (8 Data, 1 Stop, No Parity).
Connector 6-way RJ12 socket
Baud rates 300, 600, 1200, 2400, 4800, 9600 & 19200
Handshaking Hardware (CTS line) or Software (XON/XOFF)
Buffer size 5 Kbytes

Environmental Conditions

Operating range 0°C to +50°C Storage range -20°C to +60°C Charging range +10°C to +45°C
MTBF Approx. 10 Million lines (20°C, print ratio = 25%)
Note: The peak current can reach a maximum of 4A.
Charge life Approx. 6000 lines (18m) of continuous printing

1.1 Overall Specification

PIN	Signal	I/O	Definition
1	GND	N/A	Signal ground
2	TxD	0	Transmitted data to host
3	RxD	1	Received data from host
4	CTS	0	Clear to Send
5	n/c	N/A	No connection
6	n/c	N/A	No connection

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